

10/521494

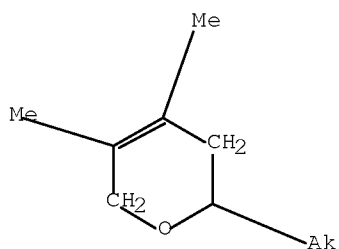
\*\*\*\*\* QUERY RESULTS \*\*\*\*\*  
(CLAIM 1)

=> d his 129

(FILE 'HCAPLUS' ENTERED AT 15:28:22 ON 22 OCT 2008)  
L29 2 S L27 OR L28

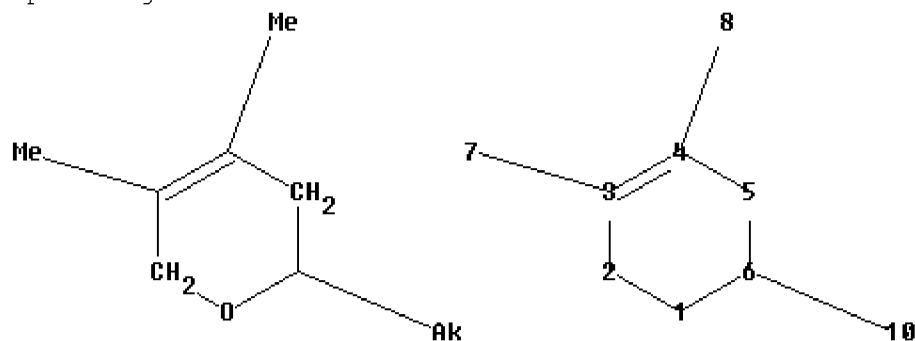
=> d que 129

L1 STR



Structure attributes must be viewed using STN Express query preparation:

Uploading L1.str



chain nodes :

7 8 10

ring nodes :

1 2 3 4 5 6

chain bonds :

3-7 4-8 6-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

6-10

exact bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-8 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS

Element Count :

Node 10: Limited

C,C4

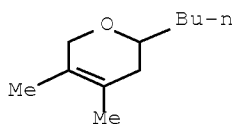
L3 82 SEA FILE=REGISTRY SSS FUL L1  
 L24 66 SEA FILE=HCAPLUS ABB=ON PLU=ON L3  
 L25 17521 SEA FILE=HCAPLUS ABB=ON PLU=ON PERFUMES+OLD,UF/CT  
 L26 47741 SEA FILE=HCAPLUS ABB=ON PLU=ON PERFUME# OR FRAGRANCE? OR  
 COLOGNE#  
 L27 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND L25  
 L28 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L24 AND L26  
 L29 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L27 OR L28

=> d l29 1-2 ibib abs hitstr hitind

L29 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2005:695603 HCAPLUS Full-text  
 DOCUMENT NUMBER: 143:179175  
 TITLE: Perfume compositions for colored toilet  
 detergents  
 INVENTOR(S): Kato, Hiroshi; Imagawa, Masaki; Ichikawa, Ryoji;  
 Matsuda, Michiko; Asakoshi, Toru  
 PATENT ASSIGNEE(S): Hasegawa Koryo Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 19 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005206726	A	20050804	JP 2004-15886	20040123
PRIORITY APPLN. INFO.:			JP 2004-15886	20040123

AB The invention relates to a perfume composition for use in a pigment-containing  
 flashing toilet, wherein the composition contains specified fragrance which  
 does not cause staining on ABS polymer of the toilet bowl. For example,  
 anisealc. 5 parts was mixed with Japan blue 1 10, and toilet detergent base  
 (Newpol T 240 U) 85 parts, and applied to an ABS polymer plate to test its  
 effect on stain prevention.  
 IT 81374-76-7  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (perfume compns. For colored toilet detergents)  
 RN 81374-76-7 HCAPLUS  
 CN 2H-Pyran, 2-butyl-3,6-dihydro-4,5-dimethyl- (CA INDEX NAME)



IC ICM C11B009-00  
ICS C11D003-50

CC 62-5 (Essential Oils and Cosmetics)  
Section cross-reference(s): 46

ST perfume toilet detergent ABS polymer staining prevention

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(armoise; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cedar leaf; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(cedarwood; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(citronella; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(elemi; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(eucalyptus; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(lavandin; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(lavender; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(lemon; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(lime; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(mint, Mentha; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(orange, sweet; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(patchouli; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(peppermint; perfume compns. For colored toilet detergents)

IT Discoloration prevention  
Perfumes  
Pigments, nonbiological  
(perfume compns. For colored toilet detergents)

IT Alcohols, uses  
Aldehydes, uses  
Esters, uses  
Hydrocarbons, uses  
Isoalkanes  
Ketones, uses  
Lactones  
RL: TEM (Technical or engineered material use); USES (Uses)

(perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(pine leaf; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(rosemary; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(spearmint; perfume compns. For colored toilet detergents)

IT Detergents  
(toilet bowl cleaners; perfume compns. For colored toilet detergents)

IT Essential oils  
RL: TEM (Technical or engineered material use); USES (Uses)  
(white thyme; perfume compns. For colored toilet detergents)

IT 9003-56-9, ABS polymer  
RL: DEV (Device component use); USES (Uses)  
(perfume compns. For colored toilet detergents)

IT 60-12-8, 2-Phenylethylalcohol 60-29-7, Ether, uses 76-22-2, Camphor  
77-93-0, Triethylcitrate 78-69-3, Tetrahydrolinalool 78-70-6, Linalool  
79-77-6,  $\beta$ -Ionone 80-26-2 80-54-6,  
p-tert-Butyl- $\alpha$ -methylhydrocinnaminaldehyde 84-66-2,  
Diethylphthalate 88-41-5, 2-tert-Butylcyclohexylacetate 89-80-5,  
Menthone 93-15-2, Methyleugenol 93-89-0, Ethylbenzoate 93-92-5,  
Methylphenylcarbinylacetate 97-53-0, Eugenol 100-51-6, Benzylalcohol,  
uses 100-86-7, Dimethylbenzylcarbinol 101-81-5, Diphenylmethane  
102-20-5, 2-Phenylethylphenylacetate 103-05-9,  
Phenylethyldimethylcarbinol 103-52-6, 2-Phenylethylbutyrate 104-54-1,  
Cinnamic alcohol 104-67-6,  $\gamma$ -Undecalactone 104-93-8 105-13-5,  
Anisealcohol 105-53-3, Diethylmalonate 105-54-4, Ethylbutyrate  
105-87-3, Geranyl acetate 106-22-9, Citronellol 106-24-1, Geraniol  
106-25-2, Nerol 107-75-5, Hydroxycitronellal 110-41-8,  
Methylnonylactaldehyde 111-27-3, Hexanol, uses 111-87-5, Octanol,  
uses 111-90-0, Diethyleneglycolmonoethylether 112-53-8, Dodecanol  
115-95-7, Linalyl acetate 122-40-7, Amylcinnaminaldehyde 123-92-2,  
Isoamylacetate 125-12-2, Isobornylacetate 127-41-3,  $\alpha$ -Ionone  
138-86-3, Limonene 140-67-0, Methylchavicol 141-78-6, Ethylacetate,  
uses 141-97-9, Ethylacetylacetate 142-19-8, Allylheptanoate  
150-84-5, Citronellyl acetate 151-05-3, Dimethylbenzylcarbinylacetate  
488-10-8, cis-Jasmone 706-14-9,  $\gamma$ -Decalactone 928-96-1,  
cis-3-Hexenol 1205-17-0 1333-58-0, Isobutylquinoline 1365-19-1,  
Linalooloxide 1405-92-1, Cedrenylacetate 1632-73-1, Fenchylalcohol  
1934-21-0, Japan yellow 4 2050-08-0, Amylsalicylate 2630-39-9,  
Methyldihydrojasmonate 2705-87-5 3407-42-9 3520-42-1, Japan red 106  
3844-45-9, Japan blue 1 5146-66-7, Geranyl nitrile 5182-36-5,  
2,4,6-Trimethyl-4-phenyl-1,3-dioxane 6259-76-3, Hexylsalicylate  
6413-10-1 6789-88-4, Hexylbenzoate 7388-22-9,  $\gamma$ -Methylionone  
7392-19-0, 2,2,6-Trimethyl-6-vinyltetrahydropyran 7452-79-1, Ethyl  
2-methylbutyrate 8000-41-7, Terpeneol 13491-79-7,  
2-tert-Butylcyclohexanol 16409-43-1, Rose oxide 16587-71-6,  
4-tert-Amylcyclohexanone 18871-14-2, 4-Acetoxy-3-pentyltetrahydropyran  
23726-91-2,  $\beta$ -Damascone 25265-71-8, Dipropyleneglycol 28219-60-5,  
2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol 31906-04-4,  
4-(4-Hydroxy-4-methylpentyl)-3-cyclohexene-1-carboxaldehyde 32210-23-4,  
4-tert-Butylcyclohexylacetate 32388-55-9, Acetylcedrene 39350-49-7,  
Hexylcinnaminaldehyde 40379-24-6, Isononylacetate 43052-87-5,  
 $\alpha$ -Damascone 51566-62-2 53219-21-9, Dihydromyrcenol 54464-57-2  
54546-26-8, 2-Butyl-4,4,6-trimethyl-1,3-dioxane 56011-02-0,

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2-Phenylethylisoamylether 56539-66-3, 3-Methoxy-3-methylbutanol  
 57378-68-4,  $\delta$ -Damascone 57456-74-3, Isolongifolanone 58985-18-5,  
 Dihydroterpinylacetate 65405-77-8, cis-3-Hexenylsalicylate 67634-00-8  
 67874-81-1, Cedrylmethylether 68901-15-5 81374-76-7  
 116325-90-7, 1,3,4,6,7,8-Hexahydro-4,6,6,7,8,8-hexamethylcyclopenta-  
 $\gamma$ -2-benzopyran 297765-27-6, Newpol T 240U  
 RL: TEM (Technical or engineered material use); USES (Uses)  
 (perfume compns. For colored toilet detergents)

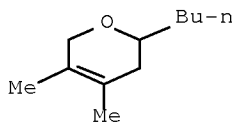
L29 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:80818 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:133431  
 TITLE: Fragrance compositions containing  
 trialkyldihdropyrans  
 INVENTOR(S): Kraft, Philip; Cadalbert, Riccardo  
 PATENT ASSIGNEE(S): Givaudan Sa, Switz.  
 SOURCE: PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004009749	A1	20040129	WO 2003-CH466	20030711
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003236764	A1	20040209	AU 2003-236764	20030711
EP 1523542	A1	20050420	EP 2003-735234	20030711
EP 1523542	B1	20070523		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
CN 1668729	A	20050914	CN 2003-816468	20030711
JP 2005533883	T	20051110	JP 2004-522090	20030711
AT 362970	T	20070615	AT 2003-735234	20030711
ES 2285133	T3	20071116	ES 2003-735234	20030711
IN 2004CN03154	A	20060303	IN 2004-CN3154	20041213
US 20070135332	A1	20070614	US 2005-521494	20050118
MX 2005PA00856	A	20050419	MX 2005-PA856	20050120
PRIORITY APPLN. INFO.:			GB 2002-16940	A 20020720
			WO 2003-CH466	W 20030711

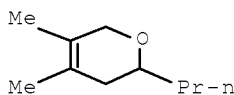
OTHER SOURCE(S): MARPAT 140:133431  
 AB 2,4,5-Trialkyl-3,6-dihydro-2H-pyrans are useful as fragrance ingredients, particularly in fine fragrances and functional perfumery. Thus, 4,5-dimethyl-2-pentyl-3,6-dihydro-2H-pyran (I) was prepared by the reaction of hexanal 2,3-dimethyl-1,3-butadiene in CH<sub>2</sub>Cl<sub>2</sub> in the presence of AlCl<sub>3</sub>. I conferred on male fragrance a green and invigorating botanical freshness.  
 IT 81374-76-7P 648882-76-2P 648882-77-3P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (fragrance compns. Containing trialkyldihdropyrans)

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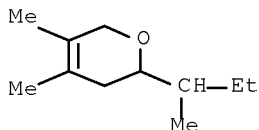
RN 81374-76-7 HCAPLUS  
CN 2H-Pyran, 2-butyl-3,6-dihydro-4,5-dimethyl- (CA INDEX NAME)



RN 648882-76-2 HCAPLUS  
CN 2H-Pyran, 3,6-dihydro-4,5-dimethyl-2-propyl- (CA INDEX NAME)



RN 648882-77-3 HCAPLUS  
CN 2H-Pyran, 3,6-dihydro-4,5-dimethyl-2-(1-methylpropyl)- (CA INDEX NAME)



IC ICM C11B009-00  
ICS C07D309-18  
CC 62-5 (Essential Oils and Cosmetics)  
Section cross-reference(s): 27  
ST dihydropyran alkyl fragrance prepn  
IT Fabric softeners  
Odor and Odorous substances  
Perfumes  
(fragrance compns. Containing trialkyldihydropyrans)  
IT Soaps  
RL: COS (Cosmetic use); BIOL (Biological study); USES (Uses)  
(fragrance compns. Containing trialkyldihydropyrans)  
IT 81374-76-7P 182361-95-1P 192516-15-7P 648882-75-1P  
648882-76-2P 648882-77-3P 648882-78-4P  
RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(fragrance compns. Containing trialkyldihydropyrans)  
IT 66-25-1, Hexanal 96-17-3, 2-MethylButanal 97-96-1, 2-EthylButanal  
110-62-3, Pentanal 111-71-7, Heptanal 123-15-9, 2-MethylPentanal  
123-72-8, Butanal 513-81-5, 2,3-Dimethyl-1,3-butadiene  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(fragrance compns. Containing trialkyldihydropyrans)  
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

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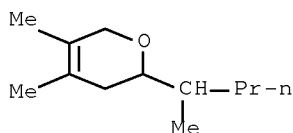
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/521494

\*\*\*\*\* QUERY RESULTS \*\*\*\*\*  
(CLAIM 2)

=> d ide 19

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 648882-78-4 REGISTRY  
ED Entered STN: 11 Feb 2004  
CN 2H-Pyran, 3,6-dihydro-4,5-dimethyl-2-(1-methylbutyl)- (CA INDEX  
NAME)  
MF C12 H22 O  
SR CA  
LC STN Files: CA, CAPLUS

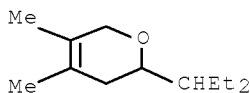


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ide 111

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 648882-75-1 REGISTRY  
ED Entered STN: 11 Feb 2004  
CN 2H-Pyran, 2-(1-ethylpropyl)-3,6-dihydro-4,5-dimethyl- (CA INDEX NAME)  
MF C12 H22 O  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

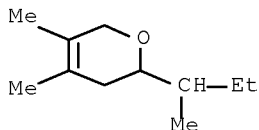
1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ide 117



10/521494

L17 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 648882-77-3 REGISTRY  
ED Entered STN: 11 Feb 2004  
CN 2H-Pyran, 3,6-dihydro-4,5-dimethyl-2-(1-methylpropyl)- (CA INDEX NAME)  
MF C11 H20 O  
SR CA  
LC STN Files: CA, CAPLUS

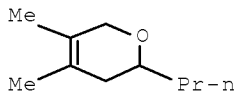


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d ide l23

L23 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2008 ACS on STN  
RN 648882-76-2 REGISTRY  
ED Entered STN: 11 Feb 2004  
CN 2H-Pyran, 3,6-dihydro-4,5-dimethyl-2-propyl- (CA INDEX NAME)  
MF C10 H18 O  
SR CA  
LC STN Files: CA, CAPLUS



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his l36

(FILE 'HCAPLUS' ENTERED AT 15:28:22 ON 22 OCT 2008)  
L36 1 S L32-L35

=> d que l36

L7 2886 SEA FILE=REGISTRY ABB=ON PLU=ON C12H22O/MF  
L8 19 SEA FILE=REGISTRY ABB=ON PLU=ON L7 AND METHYLBUTYL?

L9 1 SEA FILE=REGISTRY ABB=ON PLU=ON L8 AND PYRAN?  
 L11 1 SEA FILE=REGISTRY ABB=ON PLU=ON 648882-75-1/RN  
 L17 1 SEA FILE=REGISTRY ABB=ON PLU=ON 648882-77-3/RN  
 L23 1 SEA FILE=REGISTRY ABB=ON PLU=ON 648882-76-2/RN  
 L32 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L9  
 L33 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L11  
 L34 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L17  
 L35 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L23  
 L36 1 SEA FILE=HCAPLUS ABB=ON PLU=ON (L32 OR L33 OR L34 OR L35)

=> d l36 ibib abs

L36 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2004:80818 HCAPLUS Full-text  
 DOCUMENT NUMBER: 140:133431  
 TITLE: Fragrance compositions containing  
 trialalkyldihydropyrans  
 INVENTOR(S): Kraft, Philip; Cadalbert, Riccardo  
 PATENT ASSIGNEE(S): Givaudan Sa, Switz.  
 SOURCE: PCT Int. Appl., 21 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004009749	A1	20040129	WO 2003-CH466	20030711
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2003236764	A1	20040209	AU 2003-236764	20030711
EP 1523542	A1	20050420	EP 2003-735234	20030711
EP 1523542	B1	20070523		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
CN 1668729	A	20050914	CN 2003-816468	20030711
JP 2005533883	T	20051110	JP 2004-522090	20030711
AT 362970	T	20070615	AT 2003-735234	20030711
ES 2285133	T3	20071116	ES 2003-735234	20030711
IN 2004CN03154	A	20060303	IN 2004-CN3154	20041213
US 20070135332	A1	20070614	US 2005-521494	20050118
MX 2005PA00856	A	20050419	MX 2005-PA856	20050120
PRIORITY APPLN. INFO.:			GB 2002-16940	A 20020720
			WO 2003-CH466	W 20030711

OTHER SOURCE(S): MARPAT 140:133431

AB 2,4,5-Trialkyl-3,6-dihydro-2H-pyrans are useful as fragrance ingredients,  
 particularly in fine fragrances and functional perfumery. Thus, 4,5-dimethyl-  
 2-pentyl-3,6-dihydro-2H-pyran (I) was prepared by the reaction of hexanal 2,3-  
 dimethyl-1,3-butadiene in CH<sub>2</sub>Cl<sub>2</sub> in the presence of AlCl<sub>3</sub>. I conferred on male  
 fragrance a green and invigorating botanical freshness.

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REFERENCE COUNT:

6

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/521494

\*\*\*\*\* SEARCH HISTORY \*\*\*\*\*

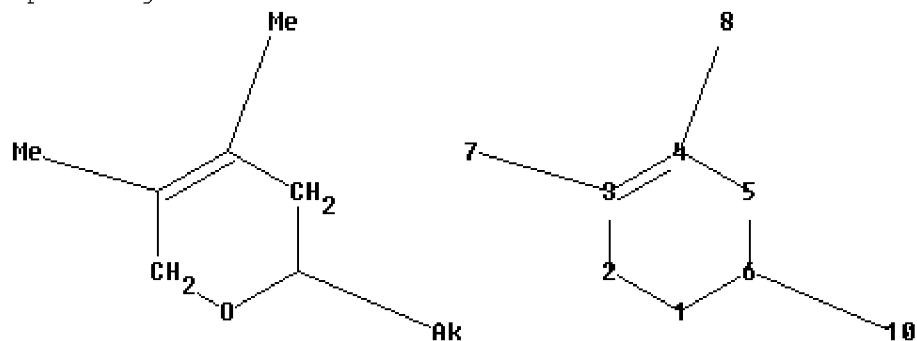
=> d his nofil

(FILE 'HOME' ENTERED AT 15:13:59 ON 22 OCT 2008)

FILE 'REGISTRY' ENTERED AT 15:14:13 ON 22 OCT 2008

L1 STRUCTURE UPLOADED  
D

Uploading L1.str



chain nodes :

7 8 10

ring nodes :

1 2 3 4 5 6

chain bonds :

3-7 4-8 6-10

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6

exact/norm bonds :

6-10

exact bonds :

1-2 1-6 2-3 3-4 3-7 4-5 4-8 5-6

isolated ring systems :

containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 10:CLASS

Element Count :

Node 10: Limited

C,C4

L2 3 SEA SSS SAM L1

D SCAN

L3 82 SEA SSS FUL L1

SAVE TEMP L3 GRE494REGL1/A

FILE 'HCAPLUS' ENTERED AT 15:18:47 ON 22 OCT 2008

L4 1 SEA ABB=ON PLU=ON US20070135332/PN  
SEL RN

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FILE 'REGISTRY' ENTERED AT 15:19:05 ON 22 OCT 2008

L5 15 SEA ABB=ON PLU=ON (110-62-3/BI OR 111-71-7/BI OR 123-15-9/BI  
OR 123-72-8/BI OR 182361-95-1/BI OR 192516-15-7/BI OR 513-81-5/  
BI OR 648882-75-1/BI OR 648882-76-2/BI OR 648882-77-3/BI OR  
648882-78-4/BI OR 66-25-1/BI OR 81374-76-7/BI OR 96-17-3/BI OR  
97-96-1/BI)  
L6 3 SEA ABB=ON PLU=ON L3 AND L5  
D SCAN  
L7 2886 SEA ABB=ON PLU=ON C12H22O/MF  
L8 19 SEA ABB=ON PLU=ON L7 AND METHYLBUTYL?  
L9 1 SEA ABB=ON PLU=ON L8 AND PYRAN?  
D SCAN  
D RN  
L10 2 SEA ABB=ON PLU=ON L7 AND ETHYLPROPYL?  
D SCAN  
D 1 CN STR RN  
L11 1 SEA ABB=ON PLU=ON 648882-75-1/RN  
L12 3714 SEA ABB=ON PLU=ON C11H20O/MF  
L13 111 SEA ABB=ON PLU=ON L12 AND PYRAN  
L14 9 SEA ABB=ON PLU=ON L13 AND METHYLPROPYL?  
L15 6 SEA ABB=ON PLU=ON L14 AND DIHYDRO?  
L16 6 SEA ABB=ON PLU=ON L15 AND DIMETHYL?  
D 1-2 STR RN CN  
L17 1 SEA ABB=ON PLU=ON 648882-77-3/RN  
L18 5150 SEA ABB=ON PLU=ON C10H18O/MF  
L19 151 SEA ABB=ON PLU=ON L18 AND PYRAN?  
L20 47 SEA ABB=ON PLU=ON L19 AND DIHYDRO?  
L21 11 SEA ABB=ON PLU=ON L20 AND DIMETHYL?  
L22 5 SEA ABB=ON PLU=ON L21 AND PROPYL?  
D 1-3 STR RN CN  
L23 1 SEA ABB=ON PLU=ON 648882-76-2/RN

FILE 'HCAPLUS' ENTERED AT 15:28:22 ON 22 OCT 2008

D IBIB AB IT SC L4  
L24 66 SEA ABB=ON PLU=ON L3  
E PERFUMES/CT  
E E3+ALL  
L25 17521 SEA ABB=ON PLU=ON PERFUMES+OLD,UF/CT  
L26 47741 SEA ABB=ON PLU=ON PERFUME# OR FRAGRANCE? OR COLOGNE#  
L27 2 SEA ABB=ON PLU=ON L24 AND L25  
L28 2 SEA ABB=ON PLU=ON L24 AND L26  
L29 2 SEA ABB=ON PLU=ON L27 OR L28  
D TI AU 1-2  
L30 2 SEA ABB=ON PLU=ON L24 AND 62/SC, SX  
L31 2 SEA ABB=ON PLU=ON L30 OR L29  
L32 1 SEA ABB=ON PLU=ON L9  
L33 1 SEA ABB=ON PLU=ON L11  
L34 1 SEA ABB=ON PLU=ON L17  
L35 1 SEA ABB=ON PLU=ON L23  
L36 1 SEA ABB=ON PLU=ON (L32 OR L33 OR L34 OR L35)  
D SCAN TI

FILE 'STNGUIDE' ENTERED AT 15:34:05 ON 22 OCT 2008

D QUE L29

FILE 'HCAPLUS' ENTERED AT 15:35:30 ON 22 OCT 2008

D L29 1-2 IBIB ABS HITSTR HITIND

FILE 'STNGUIDE' ENTERED AT 15:35:31 ON 22 OCT 2008

10/521494

FILE 'REGISTRY' ENTERED AT 15:36:42 ON 22 OCT 2008  
D IDE L9

FILE 'STNGUIDE' ENTERED AT 15:36:42 ON 22 OCT 2008

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D IDE L11

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D IDE L17

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D IDE L23

FILE 'STNGUIDE' ENTERED AT 15:37:07 ON 22 OCT 2008  
D QUE L36

FILE 'HCAPLUS' ENTERED AT 15:37:37 ON 22 OCT 2008  
D L36 IBIB ABS

FILE 'STNGUIDE' ENTERED AT 15:37:37 ON 22 OCT 2008